

Appl. No. : 09/636,278
Amendment Dated : May 4, 2005

AMENDMENTS TO THE CLAIMS

Claims 1 - 42 (Canceled)

Claim 43 (Previously Presented): A device for occluding a vascular segment, comprising:

a tubular member having a proximal end portion and a distal end portion and a lumen extending therethrough;

an expandable member at the distal end portion of the tubular member, the expandable member being formed at least in part from a braided structure;

an elongate member having a proximal end portion and a distal end portion, wherein the distal end portion is connected to the expandable member, and the elongate member extends longitudinally within the lumen of the tubular member, the elongate member being longitudinally moveable between a first position wherein the expandable member is in a collapsed configuration, and a second position wherein the expandable member is in an expanded configuration, and wherein the elongate member moves proximally longitudinally with respect to the tubular member as the expandable member moves from its collapsed configuration to its expanded configuration; and

an occluding membrane encapsulating the expandable member, the occluding membrane being configured to completely occlude blood flow in the vascular segment.

Claim 44 (Previously Presented) The device of Claim 43, further comprising a lock configured to lock the expandable member in its expanded configuration.

Claim 45 (Previously Presented) The device of Claim 44, wherein the elongate member rotates to position the expandable member in its locked, expanded configuration.

Claim 46 (Previously Presented) The device of Claim 44, wherein the elongate member rotates approximately 90 degrees to position the expandable member in its locked, expanded configuration.

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Claim 47 (Previously Presented) The device of Claim 45, wherein rotation of the elongate member causes a portion connected to the elongate member to engage a portion connected to the tubular member.

Claim 48 (Previously Presented) The device of Claim 43, wherein the expandable member has a proximal end connected to the tubular member and a distal end connected to the elongate member.

Claim 49 (Currently Amended) The device of Claim 43, wherein said occluding membrane ~~resilient material~~ is configured for creating a seal with the vascular segment.

Claim 50 (Canceled)

Claim 51 (Previously Presented) The device of Claim 43, wherein said expandable member comprises a member selected from the group consisting of a braid, a coil, a ribbon-like structure, a slotted tube, a plurality of ribs and a filter-like mesh.

Claim 52 (Previously Presented) The device of Claim 43, wherein said expandable member expands as said elongate member is retracted.

Claim 53 (Previously Presented) The device of Claim 43, wherein said expandable member occludes the blood vessel and inhibits fluid flow therethrough when said expandable member contacts the vascular segment.

Claim 54 (Previously Presented) The device of Claim 43, wherein said expandable member has holes therein.

Claim 55 (Previously Presented) A device for occluding a vascular segment, comprising:

a tubular member having a proximal end portion and a distal end portion and a lumen extending therethrough;

an expandable member at the distal end portion of the tubular member;

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an elongate member having a proximal end portion and a distal end portion, wherein the distal end portion is connected to the expandable member, and the elongate member extends longitudinally within the lumen of the tubular member, the elongate member being longitudinally moveable relative to the tubular member between a first position wherein the expandable member is in a collapsed configuration, and a second position wherein the expandable member is in an expanded configuration, wherein the elongate member is pulled proximally from the first position to the second position with respect to the tubular member to expand the expandable member; and

a covering disposed over the expandable member configured to expand with the expandable member and further configured to interrupt fluid flow through a vascular segment when the expandable member is in the expanded configuration.

Claim 56 (Previously Presented) The device of Claim 55, wherein the elongate member has a diameter of about 0.006 to 0.008 inches.

Claim 57 (Canceled)

Claim 58 (Previously Presented) The device of Claim 55, wherein the covering is configured to create a seal with the vascular segment when the expandable member is in the expanded configuration.

Claim 59 (Previously Presented) The device of Claim 58, wherein said material does not completely encapsulate said expandable member.

Claim 60 (Previously Presented) The device of Claim 55, wherein said expandable member comprises a member selected from the group consisting of a braid, a coil, a ribbon-like structure, a slotted tube, a plurality of ribs and a filter-like mesh.

Claim 61 (Previously Presented) The device of Claim 55, wherein said expandable member expands as said elongate member is retracted.

Claim 62 (Previously Presented) The device of Claim 55, wherein said expandable member occludes the blood vessel when said expandable member contacts the vascular segment.

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Claim 63 (Previously Presented) The device of Claim 55, wherein said covering has holes therein.

Claim 64 (Previously Presented) The device of Claim 55, wherein the expandable member has a proximal end connected to the tubular member and a distal end connected to the elongate member.